

## **AMENDMENTS TO THE CLAIMS**

1. **(ORIGINAL)** An identification device including in a single coded layer first, second and third machine-readable identification codes arranged along length, width and height dimensional axes and each provided with coding elements extending along their respective dimensional axes.
2. **(ORIGINAL)** An identification device according to claim 1, wherein the first, second and third identification codes are located substantially orthogonal to one another.
3. **(CURRENTLY AMENDED)** An identification device according to claim 1 ~~or 2~~, wherein there is provided a fourth identification code which has a physical characteristic different from that of at least one of the first, second ~~and/or~~ and third codes.
4. **(CURRENTLY AMENDED)** An identification device according to claim 3, wherein the different physical characteristic ~~is a~~ includes one of a different chemical composition, electrical characteristic, magnetic characteristic, ~~colour or color and~~ texture.
5. **(CURRENTLY AMENDED)** An identification device according to ~~any preceding claim~~ claim 1, wherein the identification device has dimensions of the order of micrometers or less in at least one direction.
6. **(CURRENTLY AMENDED)** An identification device according to ~~any preceding claim~~ claim 1, wherein the device has dimensions of the order of micrometers or less in at least two directions.
7. **(CURRENTLY AMENDED)** An identification device according to ~~any preceding claim~~ claim 1, including coding units of the order of nanometers in at least one direction.

8. **(CURRENTLY AMENDED)** An identification device according to ~~any preceding claim~~ claim 1, wherein the device is not visible to the naked eye.
9. **(ORIGINAL)** An identification device including first and second machine-readable identification codes arranged along different dimensional axes to one another, said first and second codes not being visible to the naked eye, and a further machine-readable identification code which has a physical characteristic different from that of the first and second codes.
10. **(ORIGINAL)** A security device for an article, including on an exterior surface of the device a coded item having coding units of the order of nanometers in at least one dimension.
11. **(CURRENTLY AMENDED)** A security device according to ~~claim 9~~ claim 10, wherein the coded item is a barcode and the coding units are individual bars of the barcode.
12. **(CURRENTLY AMENDED)** A security device according to claim 10 ~~or 11~~, wherein the coded item provides a code in at least two dimensions.
13. **(CURRENTLY AMENDED)** A security device according to ~~claim 10, 11 or 12~~ claim 10, wherein the coded item provides a code within a single layer which includes first, second and third codes arranged along length, width and height dimensional axes.
14. **(CANCELED).**
15. **(CANCELED).**

16. **(CURRENTLY AMENDED)** ~~Detection apparatus for detecting an identification or security device according to any one of claims 1 to 14, including~~  
An identification device according to claim 1 in combination with a detection apparatus, the detection apparatus comprising:  
a. locating means for locating ~~a device~~ the identification device on an article ~~and~~  
~~a~~  
b. at least one reading means separate from the locating means, wherein the reading means includes an atomic force microscope or other micro computerised measuring machine, and  
c. central means operable to control the reading means to read the codes.

17. **(NEW)** An identification device according to claim 1 provided on one of:  
(1) a currency banknote, or  
(2) a security paper.

18. **(NEW)** An identification device according to claim 1 provided on one of:  
(1) a gemstone, or  
(2) jewelry.

19. **(NEW)** An identification device according to claim 9 provided on one of:  
(1) a currency banknote, or  
(2) a security paper.

20. **(NEW)** An identification device according to claim 9 provided on one of:  
(1) a gemstone, or  
(2) jewelry.

21. (NEW) An article including a machine-readable message thereon, the message encoding predetermined information, wherein the message is defined by elements which:
  - a. are sized sufficiently small to be invisible to the naked eye,
  - b. are arrayed along the article,
  - c. protrude from the surface of the article, and
  - d. vary in one or more machine-readable characteristics, wherein such variation in characteristics encodes the predetermined information.
22. (NEW) The article of claim 21 wherein the elements have at least substantially similar shape but vary in one or more of their:
  - (1) spacing,
  - (2) height dimensions,
  - (3) width dimensions, and
  - (4) length dimensions,wherein such variation encodes the predetermined information.